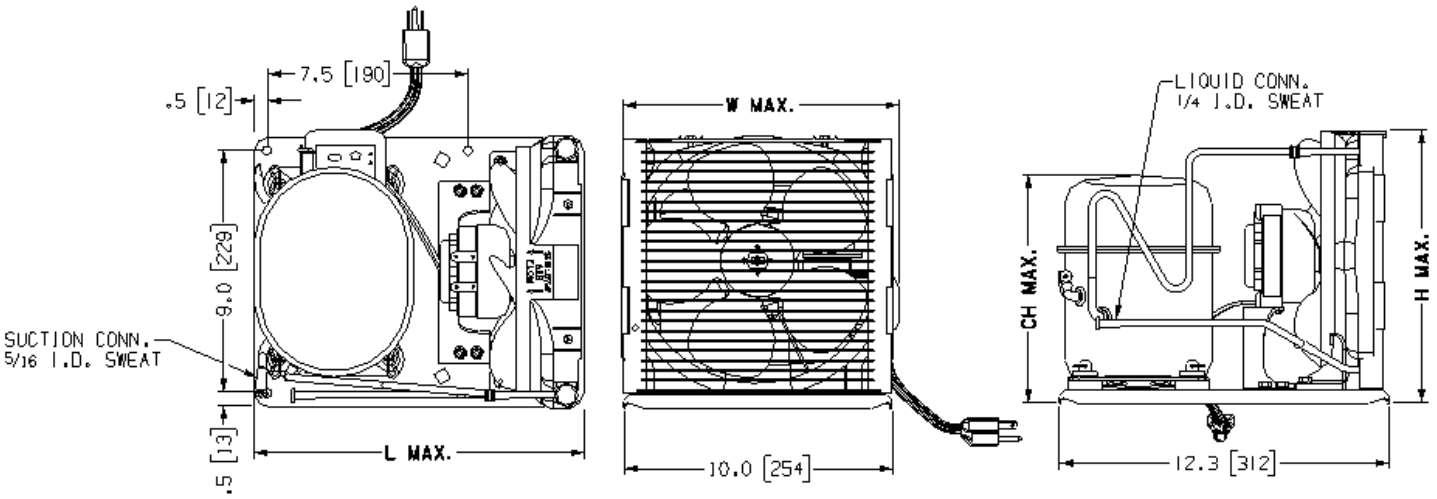
August 17, 2000

Tecumseh Hermetic Condensing Units

Model: **AEA4430YX*PA** **R-134a** **¼ HP** **Air Cooled**



Note: Dimensioning = Inches [mm]

Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AEA4430YXAPA	12.6	10.2	10.1	8.5	5/16" S	¼" S	-	180	10	TBD
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**										

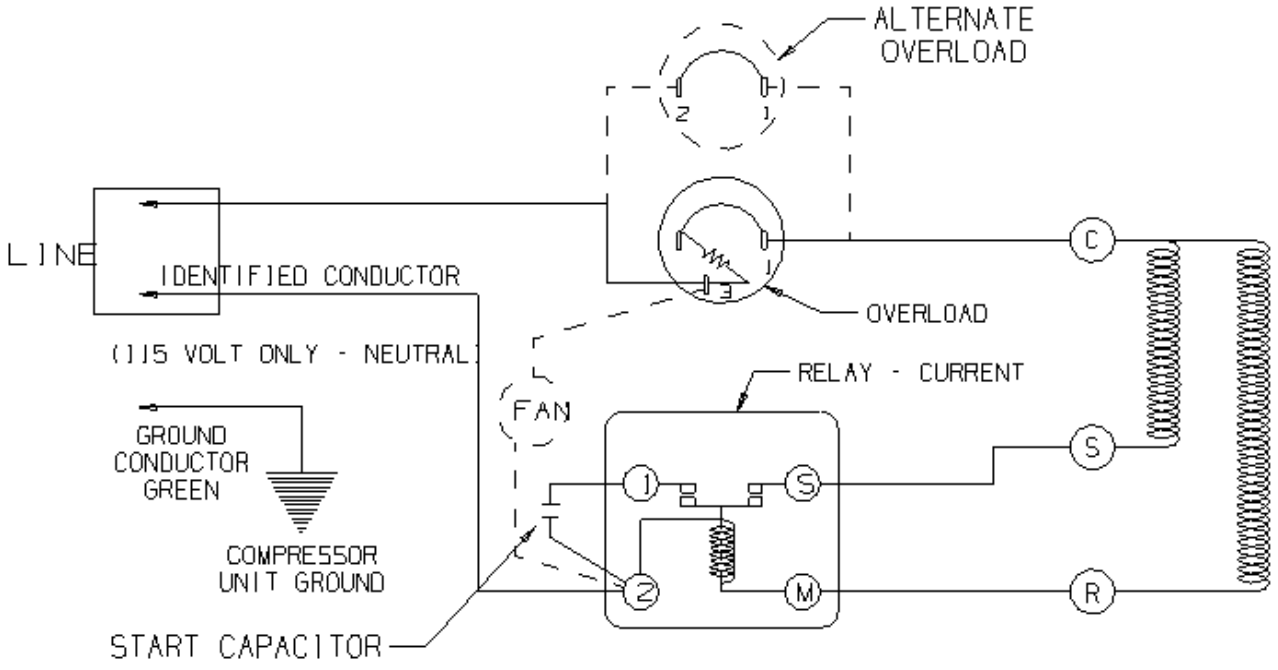
60 Hz Performance

		Ambient Temps															
Evaporator		80°F				90°F				100°F				110°F			
T, °F	PSIG	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
10	11.9	1688	332	111	89	1526	336	130	103	1384	342	151	112	1261	343	176	121
15	15.0	1892	351	115	96	1735	357	134	104	1580	362	155	114	1424	366	179	123
20	18.4	2114	371	119	102	1952	379	138	106	1782	385	160	116	1596	391	183	124
25	22.1	2352	393	124	107	2178	402	143	108	1991	409	165	118	1777	418	188	126
30	26.1	2606	417	129	111	2412	427	149	111	2207	435	171	120	1967	446	195	128
35	30.4	2878	442	134	114	2654	453	154	113	2429	464	176	122	2167	476	202	131
40	35.0	3167	468	140	116	2905	481	160	115	2657	494	183	124	2375	508	210	133
45	40.0	3473	497	146	117	3165	510	167	118	2892	526	189	127	2593	542	219	136
50	45.4	3795	526	152	117	3433	540	174	121	3134	559	196	129	2820	577	229	139
55	51.2	4135	558	159	116	3709	572	181	124	3381	595	204	131	3056	614	241	142

Based on 65°F return gas (for all condensing temps), 5°F subcooling.

Specifications: **AEA4430YX*PA** **R-134a** **¼ HP** **Air Cooled**

Model	**AEA4430YXAPA**	**AEA4430YXCPA**	**AEA4430YXDPA**
Nominal Volts-Hz-Ph	115-60-1	220/240-50-1	208/230-60-1
Unit Bill of Material	2C498-2, 2D408-1	2D409-1	2D406-1
Voltage Range	103.5 - 126.5	198 – 264	187 - 253
Min. Circuit Ampacity	7.2	3.2	3.8
Max. Fuse Size (amps)	15	15	15
Compressor Model	AEA4430YXA	AEA4430YXC	AEA4430YXD
Comp. Bill of Material	AE540AT-280-P2	AE540JT-280-P2	AE540ET-280-P2
Alt. Comp. Bill of Mat.	AE540AR-277-A2	AE540JR-277-A2	AE540ER-277-A2
Compressor RLA/LRA	5.3 / 29.0	2.3 / 12.3	2.8 / 14.4
Overload	8300MRPD19	83974	8300MRPM64
Relay	8200EMBE49	8200EMBH80	8200EMBH40
Alternate Relay	820RR12B75	n/a	n/a
Start Capacitor	85PS110C76	85PS250D06	85PS250D06
Start Capacitor Rating	243-292 µfd @ 110 V	53-64 µfd @ 250 V	53-64 µfd @ 250 V
Fan Motor	810M009B48	810M009B47	810M009B47
Alternate Fan Motor	810G009B24	810G009B25	810G009B25
Fan Blade	51567	51567	51567
Condenser	50866	50866	50866
Condenser Shroud	71092	71092	71092
Unit Drawing	SU 1924	SU 1924	SU 1924
Electrical Drawing	DEAE-2	DEAE-2	DEAE-2



115 OR 230 VOLT - SCHEMATIC WIRING DIAGRAM - CSIR

REF. DWG. MD-472-1